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# Interoperability and Jointness in the Information Age:

## An Industry View

**Presented to :**
**2004 Defense Acquisition University Alumni Association Symposium**

**June 8, 2004**

**Jack Costello**
**Network Centric Systems**
**Strategic Transformation**

# The Customer is Changing… Transforming

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## Forces Driving Change

- Nation at War
- Threat is Changing
- Budget Pressures
- Lessons Learned from Prior Conflicts
- Information Age, Technology Advances

## Customer Direction

**D**octrine – Emphasis on Jointness

**T**raining – Integrated Joint, National

**L**eader Development – Adaptive

**O**rganization – Becoming Modular

**M**aterial – Net-Enabled, Capabilities Based

**P**ersonnel – Unit Cohesion, Unit Rotations

**F**acilities – Realignment, Nodes
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**int Capabilities, Integration and Development System (JCIDS):**
Top Down Capabilities Based Requirements

**"…[NCO] is at the Heart of Force Transformation…"**

# Net-Centric Operations . . . Definition and Impact

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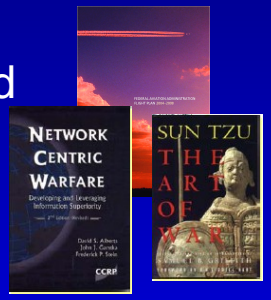
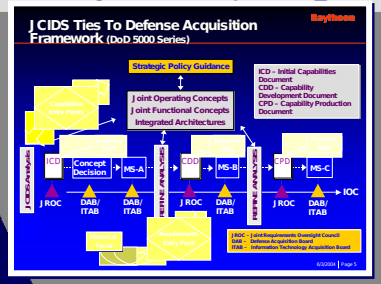
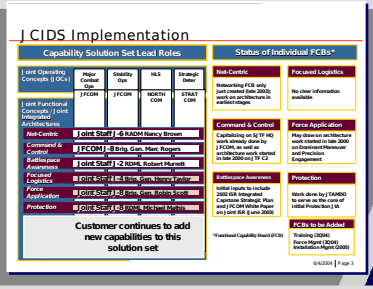
## NET-CENTRIC OPERATIONS & WARFARE

An Information Superiority-enabled concept of operations *that generates* **increased power by networking sensors, decisions makers, platforms, and effects** *to achieve* shared awareness, increased speed of command, higher tempo of operations, greater lethality, increased survivability and a degree

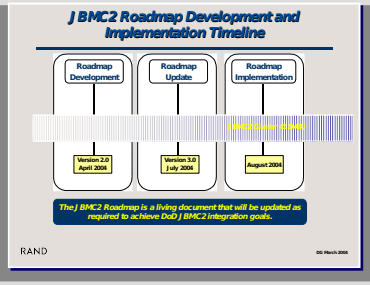



### Joint Capabilities, Integration and Development System (JCIDS)





JCIDS Implementation
Capability Solution Set Lead Roles
Status of Individual FCBs*
Joint Staff J-6 RADM Nancy Brown
J FCOM) - B Brig. Gen. Marc Rogers
Joint Staff J-2 RDML Robert Murrett
Joint Staff J-4 Ellen Gen. Wendy Taylor
Joint Staff J-8 Ellen Gen. Robin Scott
Joint Staff J-8 RDML Michael Mathis
Customer continues to add new capabilities to this solution set

### Joint Battle Management Command & Control(JMBC2)


J BMC2 Roadmap Development and Implementation Timeline
Roadmap Development
Roadmap Update
Roadmap Implementation
Version 2.0 April 2004
Version 3.0 July 2004
August 2004
The J BMC2 Roadmap is a living document that will be updated as required to achieve DoD JBMC2 integration goals.
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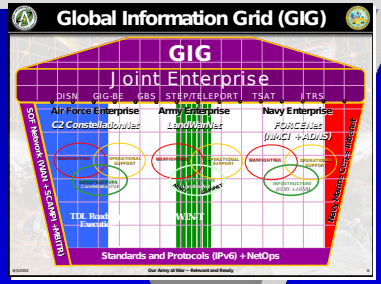
### Global Information Grid(GIG)




**Moving From "Talking about NCO" to "Implementing NCO"**

# Customer Requirements Process Migrating to Capabilities

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Previous DoD Systems (DoD Dir 5000.1, The Defense Acquisition System, DoD Instruction 5000.2, The Operation of the Defense Acquisition System and DoD 5000.2-R, Mandatory Procedures for Major Defense Acquisition Programs)

**Frequently Produced Stovepiped System Solutions**

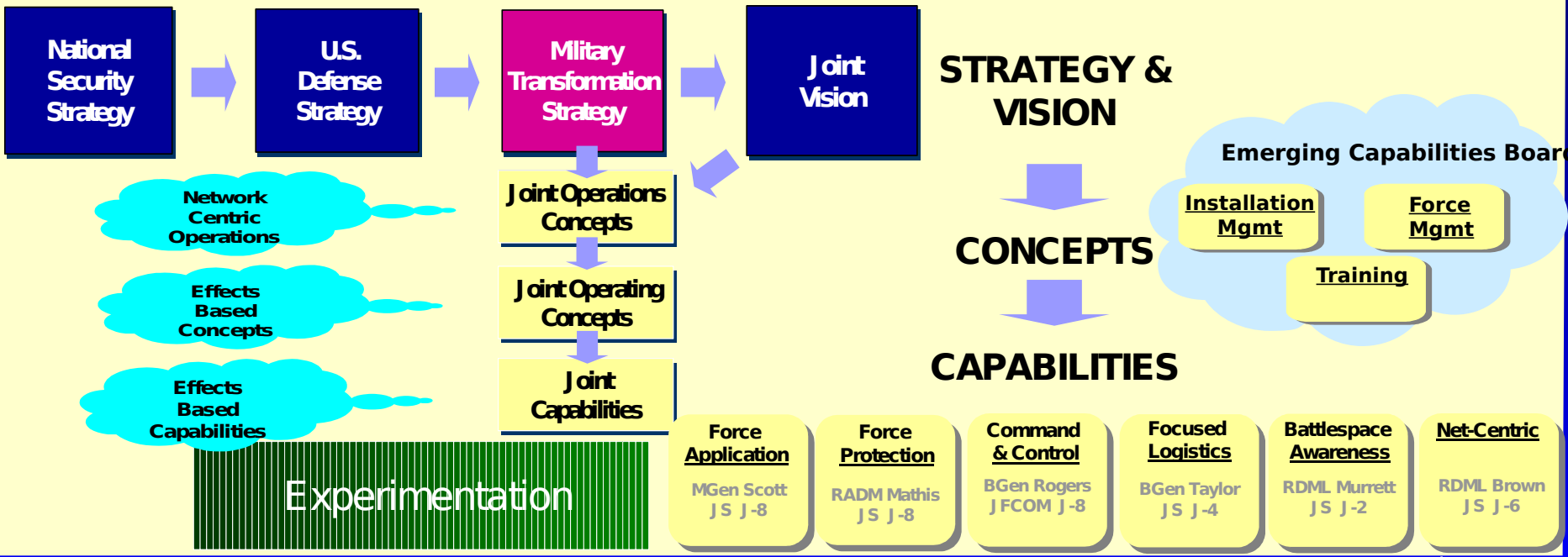
- Requirements were Service rather than Joint focused
- Lacked construct for objective analysis
- Systems not necessarily integrated
- Duplication existed particularly in smaller programs
- Evolutionary acquisition not well institutionalized
- Joint warfighting needs not prioritized

## Current Process: "JCIDS"

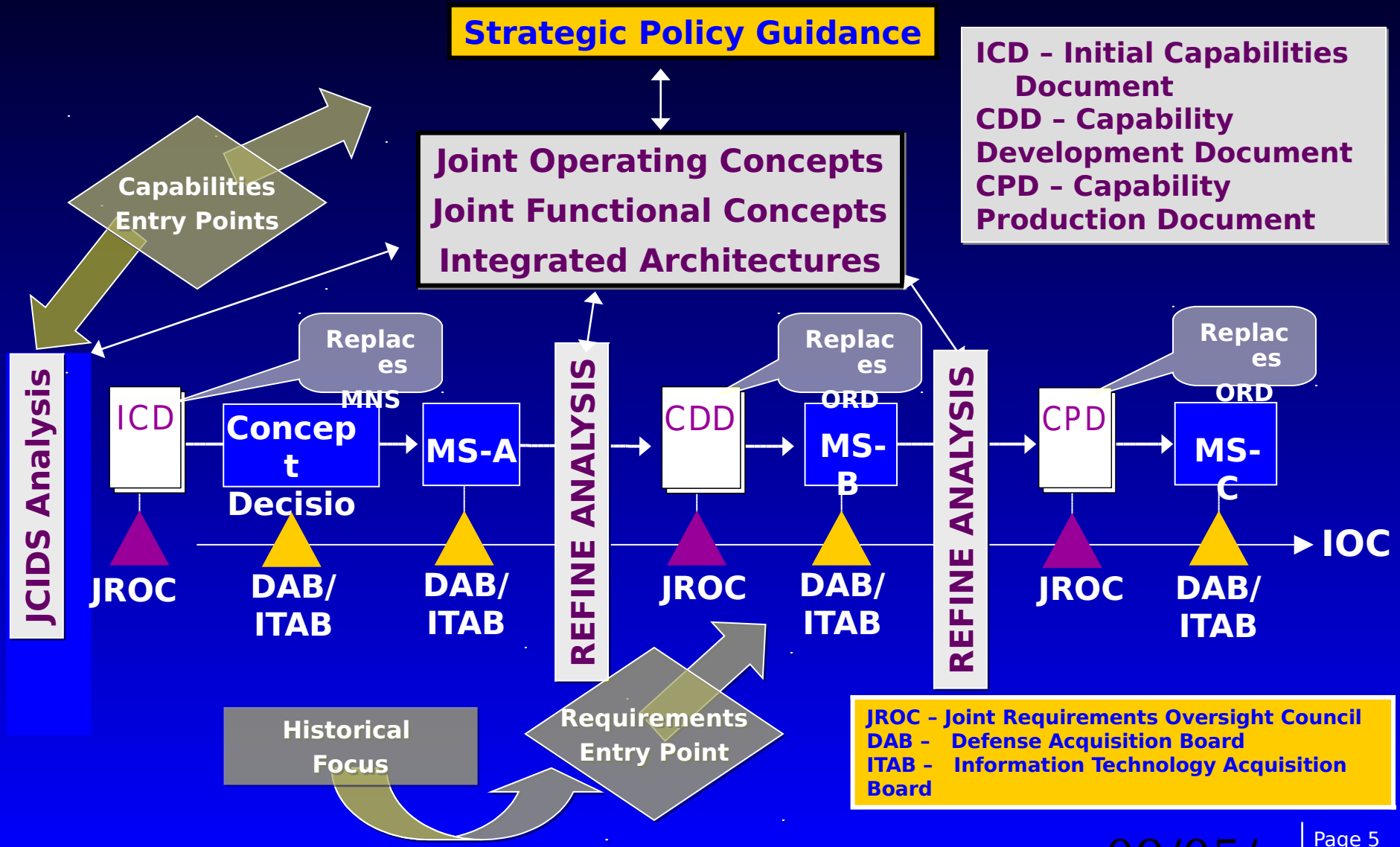
**(Joint Capabilities Integration and Development System, CJCSM 3170.01A & D, 12 March 04)**

**JCIDS seeks to:**

- Enhance methodology to identify and describe capabilities gaps
- Mandate broader review of capability proposals
- Engage the acquisition community early
- Better define non-materiel aspects of materiel solutions
- Prioritize capability gaps and proposals
- Improved coordination with other departments and agencies



# JCIDS Ties To Defense Acquisition Framework (DoD 5000 Series)



# Industry Reactions/Questions/Perspectives

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- Transformation, Jointness, Interoperability, Interdependence will *Force* "Capability Solutions". Will Change be sustained?
- Industry Will Gravitate to the Resource Holder. How will JCIDS Effect Past Prerogatives of the Services?
- NCO and the Drive to Interdependence Will Drive Multi-business Collaboration
- Industry Wants to Hear the Customer; Challenge Is to Find the "Real" Customer (Services, JCS, CCs, JFCOM, STRATCOM, PEOs, Def Agencies)
- JCIDS Process Requires Industry and DoD to Establish Active, Early and Continuous Communication
- Future Concepts Are Fuzzy; Dialogue Required to Define
- Competition for Resources (Internal to DOD and External in Business) Needs to Be Positively Harnessed

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